

PERICLIMENES BURRUP BRUCE, 2008, AN ADDITION TO THE PONTONIINE SHRIMP FAUNA OF HERON ISLAND, QUEENSLAND

Memoirs of the Queensland Museum – Nature 56(2): 588. 2013:- The pontoniine shrimp fauna of Heron Island, one of the Capricorn Island group, on the southern Great Barrier Reef, was intensively studied from 1975–1980 and the presence of 100 species was recorded (Bruce 1981) and recently extended by the CReefs Heron Island Biodiversity Expedition 2009 (Bruce 2010a, 2010b, 2011), increasing the number of species now known to 113. Re-examination of some old collections provided specimens of a further species, *Periclimenes burrup* Bruce, 2007, which is now added to the Heron Island and Queensland fauna, the second report of the species and the first for the east coast of Australia. The shrimps were found in association with a soft coral, *Dendronephthya* sp., which constitutes a new host record.

Periclimenes burrup Bruce, 2007 (Fig. 1)

Periclimenes burrup Bruce, 2007: 113–116, figs 5–7.

Material Examined. 6 ♂, 8 ovig. ♀, 1 ♀, north Wistari Reef, Heron Island, coll D. Fisk, stn. DF.64, scuba, 24.5 m, 8 April 1978, QM W29141.

Diagnosis. A species of the *Periclimenes incertus* group (Bruce 1969). Rostral dentition 8-11/1-2 (Fig. 1A), first pereiopod with carpus longer than chela, second pereiopods robust, markedly unequal, major pereiopod dactyl (Fig. 1C) with single small subacute, slightly recurved tooth, proximal half of cutting edge of fixed finger with small subacute, slightly recurved tooth distally and 3-4 smaller rounded teeth proximally, minor pereiopod dactyl unarmed, ambulatory dactyls slender with long unguis and very slender accessory tooth.

Colouration. Not previously reported. Body and appendages mainly transparent, cornea white, fingers of major second pereiopod chalky white, colour not in chromatophores, ovary pale grey, sparsely speckled with small red chromatophores.

Host. *Dendronephthya* sp. [Alcyonacea, det. P.N. Alderslade].

Remarks. The specimens agree well with the original description except the articulated posterior rostral teeth are

not discernible. Ten *Periclimenes* species are now referred to the *incertus* species group (Bruce 2008). Of these six are known from Australian waters but only two, *P. incertus* Borradaile, 1915, and *P. toloensis* Bruce, 1969, have been found on Heron Island. *Periclimenes burrup* is readily distinguishable from these by the form of the fingers of the major second pereiopod. It has been suggested that the report of *P. sinensis* Bruce from the Northern Territory by Bruce & Coombes (1995) may also be referable to *P. burrup* (Bruce 2007).

Distribution. Known only from the type locality, the Burrup Peninsula, and Enderby Island and Roly Rock, Dampier Archipelago, Western Australia, and now Heron Island, Queensland.

Acknowledgements.

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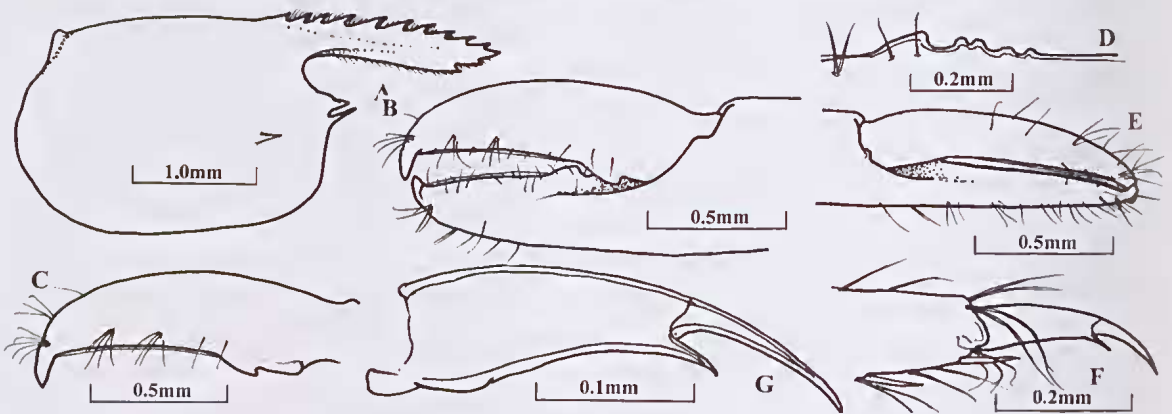


FIG. 1. *Periclimenes burrup* Bruce, 2008. Ovigerous female, postorbital carapace length 1.7 mms, Heron Island, QM W29141. A, carapace and rostrum. B, major second pereiopod, fingers. C, same, dactyl. D, same, fixed finger, proximal cutting edge. E, minor second pereiopod, fingers. F, third pereiopod, distal propod and dactyl. G, same, dactyl.